

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0010	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Wadsworth Canal	A	9.22						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.02		0.02	0.22%				
Slope Stability	0.01		0.01	0.11%				
Erosion / Bank Caving	0.53		0.53	5.75%				
<i>Supplemental</i>								
USACE Erosion Survey	0.05		0.05	0.54%				
DWR UCIP Field Study					0.09	0.02		
<i>LMA Totals:</i>	0.61	0.00	0.61	6.61%	0.09	0.02	0.00	0.00
Unit No. 01 Wadsworth Canal LB	Overall Unit Rating	Total Unit Miles						
ST0010	A	4.63						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.22%				
Erosion / Bank Caving	0.10		0.10	2.16%				
<i>Supplemental</i>								
USACE Erosion Survey	0.02		0.02	0.43%				
DWR UCIP Field Study					0.04			
<i>Unit Totals:</i>	0.13	0.00	0.13	2.81%	0.04	0.00	0.00	0.00
Unit No. 02 Wadsworth Canal RB	Overall Unit Rating	Total Unit Miles						
ST0010	M	4.60						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.22%				
Slope Stability	0.01		0.01	0.22%				
Erosion / Bank Caving	0.43		0.43	9.35%				
<i>Supplemental</i>								
USACE Erosion Survey	0.03		0.03	0.65%				
DWR UCIP Field Study					0.05	0.02		
<i>Unit Totals:</i>	0.48	0.00	0.48	10.44%	0.05	0.02	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2014 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 01 Wadsworth Canal			Left	4.63
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/19/2014 - 03/19/2014		11/13/2014 - 11/13/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_ST0010_01_s_2013_10				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	11		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_ST0010_01_s_2013_11						
Action/Comments							
Inspector Comments: The LMA has flood fight supplies and equipment.							

No Photos

LM Start		Rating **	A	Issue No.	12		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_ST0010_01_s _ 2013_12						
Action/Comments							
Inspector Comments: The LMA completed flood fight training in 2014.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	8
LM End	0.02	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.113670 °	39.113670 °
				-121.768310 °	-121.768310 °
DWR ID	DWR_ST0010_01_f_2014_8				
Action/Comments					
Inspector Comments: FS_ID:35903					
EP_NO: 5296					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: Need to determine disposition of pipe, contact pipe owner if possible					
5/16/2013 Same as last inspection					
10/29/2013 Same as last inspection					
5/13/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 3-1/2-inch steel gas line through the levee, 3.0 feet below the crown. Bank rock revetted. (Permit No. 5296 - Atlantic Oil CO. 1966).					
FS Date: 5/15/2014 7:04:17 AM					

No Photos

LM Start	1.20	Rating **	M	Issue No.	13
LM End	1.20	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127566 °	39.127566 °
				-121.755282 °	-121.755282 °
DWR ID	DWR_ST0010_01_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:35904					
EP_NO: 1605					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No pump on Pier and power lines cut. Apparently abandoned-should be abandoned properly5/16/2013 Same as last inspection10/29/2013 Same as last inspection5/13/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3.7 feet below the crown. Siphon breaker on the waterward slope. Pump on channel bank on steel structure. (App. 1605 - Schnable) Service pole at the waterward toe. Anchor in waterward slope. (App 1631-Schnable).					
FS Date: 5/15/2014 7:07:47 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

Levee Inspection Report By Mile - Fall 2014

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start	1.74	Rating **	M	Issue No.	6
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_f_2014_6				
Action/Comments					
Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: WAD_2-1_L]					

No Photos

LM Start	1.85	Rating **	M	Issue No.	107
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110 °	39.135110 °
				-121.748230 °	-121.748230 °
DWR ID	DWR_ST0010_01_f_2013_107				
Action/Comments					
Note and monitor erosion site.					

View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	M	Issue No.	106
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.135110 °	39.135110 °
				-121.748229 °	-121.748229 °
DWR ID	DWR_ST0010_01_f _ 2013_106				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

View of the rodent holes under the irrigation pipe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	15
LM End	1.85	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.135091 °	39.135091 °
				-121.748196 °	-121.748196 °
DWR ID	DWR_ST0010_01_f_2014_15				
Action/Comments					
Inspector Comments: FS_ID:35909					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned. Pipe open and not plugged. Pipe should be removed or abandoned properly. Extensive animal burrowing occurring along pipe alignment 5/16/2013 Same as last inspection. Steve Beckley is looking into finding pipe owner to properly abandon pipe 4/29/2013 Same as last inspection 5/13/2014 Cap was made and bolted on to WS open end of pipe.					
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 5.7 feet below the crown. Siphon breaker on landward side. Vertical pump on waterward side. Meter pole on berm. Originally in O+M manual, asbuilt available.					
FS Date: 5/15/2014 7:14:12 AM					

No Photos

LM Start	2.40	Rating **	M	Issue No.	14
LM End	2.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.141697 °	39.141697 °
				-121.742819 °	-121.742819 °
DWR ID	DWR_ST0010_01_s_2012_14				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA_2014_ST0010_42_14_20141013_00004.jpg



View of the erosion along the fence.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start	2.43	Rating **	M	Issue No.	7
LM End	2.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f_2014_7				
Action/Comments					
Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: WAD_2-4_L]					

No Photos

LM Start	2.61	Rating **	M	Issue No.	18
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.144313 °	39.144313 °
				-121.740758 °	-121.740758 °
DWR ID	DWR_ST0010_01_f_2014_18				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: The erosion is scheduled for repair in 2015.					

Photo 1 of 1 : FA_2014_ST0010_42_18_20141113_00009.jpg



View of the erosion along the waterside toe.

LM Start	2.76	Rating **	M	Issue No.	1
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.146063 °	39.146063 °
				-121.739288 °	-121.739288 °
DWR ID	DWR_ST0010_01_s_2012_1				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_42_1_20141013_00001.jpg



View of erosion along W/S toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Sutter Maintenance Yard Wadsworth Canal

No Photos

View of the erosion along the waterside toe of the levee.

View of the erosion along the waterside toe of the levee.

Page 6 of 7

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/13/2014 11/13/2014	Bob Duffey

LM Start	3.87	Rating **	M	Issue No.	17
LM End	3.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.160442 °	39.160442 °
				-121.731067 °	-121.731067 °
DWR ID	DWR_ST0010_01_f_2014_17				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_42_17_20141113_00008.jpg



View of the erosion along the waterside toe.

LM Start	4.27	Rating **	M	Issue No.	5
LM End	4.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.165845 °	39.165845 °
				-121.728877 °	-121.728877 °
DWR ID	DWR_ST0010_01_s_2012_5				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_42_5_20141113_00007.jpg



View of the erosion along the waterside toe.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard Wadsworth Canal

Waterway			Bank	Unit Miles
Unit No. 02 Wadsworth Canal			Right	4.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/19/2014 - 03/19/2014		11/13/2014 - 11/13/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	12
LM End	0.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.114372 °	39.114372 °
				-121.769263 °	-121.769263 °
DWR ID	DWR_ST0010_02_f_2014_12				
Action/Comments					
Inspector Comments: FS_ID:35916 EP_NO: 5296 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to locate any signage. Call owner to determine disposition of pipeline5/16/2013 Same as last inspection10/29/2013 Same as last inspection5/13/2014 Same as last inspection. FIELD_STRUCT_DESC: 3-1/2-inch steel gas line through levee, 30-inches below crown. (App. 5296 - Atlantic Oil Co.). FS Date: 5/15/2014 7:31:46 AM					

No Photos

LM Start	1.15	Rating **	M	Issue No.	13
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127487 °	39.127487 °
				-121.756485 °	-121.756485 °
DWR ID	DWR_ST0010_02_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:35917 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears improperly abandoned. No motor present, electrical equipment is stripped. Heavy rodent activity along pipe WS and LS. Pipe needs to be removed or properly abandoned 5/16/2013 Same as last inspection 10/29/2013 Same as last inspection 5/13/2014 Same as last inspection. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 4.8-feet below the crown. Pump mounted on concrete pad near canal bank. Service pole on berm. 30-inch diameter concrete standpipe at landward toe. Originally in O+M manual, asbuilt available. FS Date: 5/15/2014 7:39:41 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

Levee Inspection Report By Mile - Fall 2014

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

Photo 1 of 1 : FA_2014_ST0010_43_3_20141013_00001.jpg



View of vehicle erosion along L/S slope.

Photo 1 of 1 : FA_2014_ST0010_43_21_20141113_00010.jpg



11/13/2014

View of no vegetation on both slopes.

Photo 1 of 1 : FA_2014_ST0010_43_15_20141113_00011.jpg



View of the rodent holes along the waterside slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	1.74	Rating **	M	Issue No.	8
LM End	1.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.134064 °	39.141814 °
				-121.749781 °	-121.743260 °
DWR ID	DWR_ST0010_02_f_2014_8				
Action/Comments					
Inspector Comments: 2011 - Whole bank is starting to unravel, with failure from poor soils. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: WAD_2-1_R]					

No Photos

LM Start	1.77	Rating **	U	Issue No.	16
LM End	1.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.134497 °	39.134497 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f_2014_16				
Action/Comments					
Inspector Comments: FS_ID:36098 EP_NO: 1096 Repair Type: Urgent Crossing Status: Found UCIP Comments: Heavy rodent activity on LS slope along pipe alignment 5/16/2013 Same as last inspection 10/29/2013 Same as last inspection 5/13/2014 Air vent on LS shoulder leaks and is causing minor erosion to the LS slope. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a steel structure on the bank. Siphon breaker on the landward slope. unable to locate 48-inch concrete standpipe on the landward berm that was listed in permit. (Permit No. 1096 - Brown). Asbuilt available. FS Date: 5/13/2014 2:18:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	1.77	Rating **	M	Issue No.	11
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.134490 °	39.134490 °
				-121.749716 °	-121.749716 °
DWR ID	DWR_ST0010_02_f_2012_11				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_ST0010_43_11_20141013_00006.jpg



View of the rodent holes above the irrigation pipe.

LM Start	1.77	Rating **	M	Issue No.	17
LM End	1.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.134499 °	39.134499 °
				-121.749712 °	-121.749712 °
DWR ID	DWR_ST0010_02_f_2014_17				
Action/Comments					
Inspector Comments: FS_ID:35922					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Heavy rodent activity along LS alignment of pipe. No pump on structure and it appears to be abandoned. Should be abandoned properly. 5/16/2013 Same as last inspection 10/29/2013 Same as last inspection 5/13/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 4.4-feet below the crown. Pump mounted on a timber structure on the bank. Siphon breaker on the landward slope. Unable to locate 48-inch concrete standpipe on the landward berm that was listed in O+M manual. Asbuilt available.					
FS Date: 5/15/2014 7:55:59 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	2.44	Rating **	M	Issue No.	9
LM End	2.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_f_2014_9				
Action/Comments					
Inspector Comments: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: WAD_2-4_R]					

No Photos

LM Start	3.30	Rating **	M	Issue No.	14
LM End	3.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.152903 °	39.152903 °
				-121.734906 °	-121.734906 °
DWR ID	DWR_ST0010_02_s_2012_14				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: The erosion is scheduled for repair in 2015					

Photo 1 of 1 : FA_2014_ST0010_43_14_20141013_00007.jpg



View of the erosion along the W/S toe.

LM Start	3.33	Rating **	M	Issue No.	18
LM End	3.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153172 °	39.153172 °
				-121.734741 °	-121.734741 °
DWR ID	DWR_ST0010_02_f_2014_18				
Action/Comments					
Inspector Comments: FS_ID:35926					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 5/16/2013 No known permit for work10/29/2013					
Same as last inspection5/13/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 4-inch steel communication line conduit					
through the levee 2-feet below the crown. Fiber optic line attached to					
bottom of downstream side of South Butte rd. bridge. Position marked					
with orange markers.					
FS Date: 5/15/2014 8:02:25 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	3.35	Rating **	M	Issue No.	19
LM End	3.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153491 °	39.153491 °
				-121.734636 °	-121.734636 °
DWR ID	DWR_ST0010_02_f_2014_19				
Action/Comments					
Inspector Comments: FS_ID:35943 EP_NO: 10473 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe shows signs of heavy rust at outlet in channel. Good candidate for video inspection5/16/2013 Same as last inspection10/29/2013 Same as last inspection5/13/2014 Same as last inspection. FIELD_STRUCT_DESC: 16-inch steel, irrigation pipe through the levee, 2.7-feet below the crown. Vertical pump in the channel with a service pole on the berm. Discharges into channel at the landward toe of the levee. (App. 5622 & 10473). Originally included in O+M Manual As- built available. FS Date: 5/15/2014 8:04:21 AM					

No Photos

LM Start	3.35	Rating **	U	Issue No.	20
LM End	3.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.153530 °	39.153530 °
				-121.734620 °	-121.734620 °
DWR ID	DWR_ST0010_02_f_2014_20				
Action/Comments					
Inspector Comments: FS_ID:35944					
EP_NO: 5622					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 5/16/2013 Signs of leaks near concrete stand pipe on LS toe-road. Area about 20ft. long is muddy and there has not been any rain for a few weeks10/29/2013 Same as last inspection5/13/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 15-inch steel irrigation pipe through the levee, 2.7-feet below the crown. Vertical pumps in the channel (likely sleeved through a 22-inch steel pipe). Power pole on the WS slope. Discharges into 36-inch concrete standpipe at the landward toe of the levee. 16-inch CMP riser on LS shoulder. (Permit No. 5622 & 10473). Originally included in O+M Manual As-built available.					
FS Date: 5/15/2014 8:05:27 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	3.46	Rating **	M	Issue No.	4
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.155057 °	39.155057 °
				-121.733985 °	-121.733985 °
DWR ID	DWR_ST0010_02_s_ 2012_4				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_43_4_20141113_00012.jpg



View of the erosion at the waterside toe.

LM Start	3.59	Rating **	M	Issue No.	5
LM End	3.99	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156753 °	39.162113 °
				-121.733267 °	-121.730997 °
DWR ID	DWR_ST0010_02_s_ 2012_5				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_43_5_20141013_00003.jpg



View of the erosion along the waterside toe.

LM Start	4.48	Rating **	M	Issue No.	10
LM End	4.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.168659 °	39.168937 °
				-121.728016 °	-121.727905 °
DWR ID	DWR_ST0010_02_f_ 2014_10				
Action/Comments					
Inspector Comments: 2011 - Small erosion pocket. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: WAD_4-3_R]					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/13/2014 11/13/2014	Bob Duffey

LM Start	4.49	Rating **	M	Issue No.	6
LM End	4.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.168848 °	39.168848 °
				-121.728130 °	-121.728130 °
DWR ID	DWR_ST0010_02_s_ 2012_6				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_43_6_20141113_00013.jpg



View of the erosion along the waterside toe.

LM Start	4.55	Rating **	A/W	Issue No.	7
LM End	4.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.169670 °	39.169670 °
				-121.727787 °	-121.727787 °
DWR ID	DWR_ST0010_02_s_ 2012_7				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0010_43_7_20141013_00005.jpg



View of the erosion along the W/S toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement